13

CLAIMS

1. A method of transmitting time slots in a base station system, the method comprising the steps of:

definining (702) certain transmission powers as a normal transmis-
5   sion power;

determining (704) for each time slot the transmission power to be used;

c h a r a c t e r i z e d   by transmitting time slots to be transmitted at a transmission power higher than normal alternately, using at least two differ-
10   ent transceivers in order to minimize heat build-up in the transceivers.

2. A method as claimed in claim 1, c h a r a c t e r i z e d   by placing a control channel in the time slot to be transmitted at a higher transmission power than normal.

3. A method as claimed in claim 1, c h a r a c t e r i z e d   by placing
15   a packet switched channel in the time slot to be transmitted at a higher trans-
mission power than normal.

4. A method as claimed in claim 3, c h a r a c t e r i z e d   by the packet switched channel being a GPRS packet data traffic channel.

5. A method as claimed in claim 1, c h a r a c t e r i z e d   by placing
20   ....a high-speed data channel in the time slot to be transmitted at a higher trans-
mission power than normal.

6. A method as claimed in claim 5, c h a r a c t e r i z e d   by the high-speed data channel being an EDGE-modulated traffic channel.

7. A method as claimed in claim 5, c h a r a c t e r i z e d   by the
25   high-speed data channel being an EDGE-modulated GPRS packet data traffic channel.

8. A method as claimed in claim 1, c h a r a c t e r i z e d   by trans-
mitting the time slots to be transmitted at a higher transmission power than normal alternately, using at least two different antennas.

30   9. A method as claimed in claim 1, c h a r a c t e r i z e d   by trans-
mitting time slots to be transmitted at a normal transmission power using fre-
quency hopping.

10. A base station system comprising
at least two transceivers (114);

a control part (118, 124) for controlling the operation of the trans-
ceivers (114);

a switching field (120) for connecting time slots to the transceivers
(114);

5   certain transmission powers being defined as a normal transmission
power in the control part (118, 124);

the control part (118, 124) being arranged to determine for each
time slot a transmission power to be used.

c h a r a c t e r i z e d in that the control part (118, 124) is arranged
10   to direct the switching field (120) to place time slots to be transmitted at a
transmission power higher than normal to be transmitted alternately, using two
different transceivers (114) in order to minimize heat build-up in the transceiv-
ers (114).

11. A base station system as claimed in claim 10, **c h a r a c -
15   t e r i z e d** in that the control part (118, 124) is arranged to place a control
channel in the time slot to be transmitted at a higher transmission power than
normal.

12. A base station system as claimed in claim 10, **c h a r a c -
t e r i z e d** in that the control part (118, 124) is arranged to place a packet
20   switched channel in the time slot to be transmitted at a higher transmission
power than normal.

13. A base station system as claimed in claim 12, **c h a r a c -
t e r i z e d** in that the packet switched channel is a GPRS packet data traffic
channel.

25   14. A base station system as claimed in claim 10, **c h a r a c -
t e r i z e d** in that the control part (118, 124) is arranged to place a high-
speed data channel in the time slot to be transmitted at a higher transmission
power than normal.

15. A base station system as claimed in claim 14, **c h a r a c -
30   t e r i z e d** in that the high-speed data channel is an EDGE-modulated traffic
channel.

16. A base station system as claimed in claim 14, **c h a r a c -
t e r i z e d** in that the high-speed data channel is an EDGE-modulated GPRS
packet data traffic channel.

35   17. A base station system as claimed in claim 10, **c h a r a c -
t e r i z e d** in that the base station system is arranged to transmit the time

15

slots to be transmitted at a higher transmission power than normal alternately, using at least two different antennas (112A, 112B).

18. A base station system as claimed in claim 10, **c h a r a c -**
t e r i z e d in that the base station system is arranged to transmit time slots to
5   be transmitted at a normal transmission power using frequency hopping.